



# AFCTN Report 94-085

AFCTB-ID  
94-109



## Technical Raster Transfer Using: West Coast Information Systems' Data



Submitted By: OO-ALC/TIEDEE



Supporting: EDCARS Program

(Contract #F33657-75-C-0310)



MIL-STD-1840A

MIL-R-28002A (Raster)

Quick Short Test Report

12 August 1994

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Prepared for

Electronic Systems Center  
Air Force CALS Program Office  
HQ ESC/AV-2  
4027 Colonel Glenn Hwy Suite 300  
Dayton OH 45431-1672

DTIC QUALITY INSPECTED 3

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**Using:**  
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**MIL-STD-1840A**  
**MIL-R-28002A (Raster)**

**Quick Short Test Report**  
**12 August 1994**

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**Prepared By**  
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**DTIC QUALITY INSPECTED 3**

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# **Air Force CALS Test Bed**

## ***Notification of Test Results***

**12 August 1994**

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

### **West Coast Information Systems**

Identified as follows:

Title:	<b>Technical Raster Transfer</b>
Program:	<b>EDCARS</b>
Program Office:	<b>OO-ALC/TIEDEE</b>
Contract No.:	<b>F33657-75-C-0310</b>
QSTR No.:	<b>AFCTB-ID 94-109</b>

Received on the following media:     **Two 9-Track Tapes**

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Standard:	<b>Tape #1 Fail - Tape #2 Fail</b>
MIL-STD-1840A Media Format:	<b>Tape #1 Fail - Tape #2 Fail</b>
MIL-D-28000A IGES:	<b>N/A</b>
MIL-M-28001A SGML:	<b>N/A</b>
MIL-R-28002A Raster:	<b>Tape #1 Pass - Tape #2 Fail</b>
MIL-D-28003 CGM:	<b>N/A</b>

Formal results with associated disclaimer are documented and available from the AFCTB.

**Air Force CALS Test Bed  
HQ ESC/AV-2P  
4027 Colonel Glenn Highway, Suite 300  
Dayton, OH 45431-1672  
Phone: 513-257-3085     FAX: 513-257-5881**

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## **1. Introduction**

### **1.1 Background**

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

## 1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze OO-ALC/TIEDEE's interpretation and use of the CALS standards in transferring technical Raster data. OO-ALC/TIEDEE used its EDCARS Technical Data Interchange System to produce data, in accordance with the CALS standards, and delivered it to the AFCTN technical staff on two 9-track magnetic tapes.

This test is a follow on to QSTR #94-098, and is being conducted to help determine the source of errors in the CALS tape, which are being extracted from the EDCARS system.



---

## 2. Test Parameters

Test Plan: AFCTB 94-109

Date of  
Evaluation: 12 August 1994

Evaluator: George Elwood  
Air Force CALS Test Bed  
DET 2 HQ ESC/AV-2P  
4027 Colonel Glenn Hwy  
Suite 300  
Dayton OH 45431-1672

Data  
Originator: Joe Bechtel  
OO-ALC/TIEDEE  
Bldg 1237  
6032 Fir Ave  
Hill AFB, UT 84056-5820  
(DSN) 458-6225

Data  
Description: Technical Raster Test  
1 Document Declaration file  
8 Raster files

Data  
Source System:

1840

**HARDWARE**

A T & T EDCARS Proprietary Equipment

**SOFTWARE**

A T & T Proprietary Software (EDCALs)

Raster

**HARDWARE**

A T & T Proprietary Equipment

**SOFTWARE**

A T & T Proprietary Software

Evaluation Tools Used:

MIL-STD-1840A (TAPE)

SUN 3/280

AFCTN Tapetool v1.2.10 UNIX  
XSoft CAPS/CALS v40.4

MIL-R-28002 (Raster)

HP 735

AFCTN xrastb.hp  
Carberry CADLeaf 4.0  
InterCAP X-Change v7.82

SGI Indigo2

IGES Data Analysis (IDA) CALSView

SUN SparcStation 2

Carberry CADLeaf Plus v3.1  
AFCTN validg4  
AFCTN xrastb.sun4  
IDA IGESView v3.0

PC 486

AFCTN validg4  
Carberry CADLeaf Windows  
IDA IGESView Windows  
IDA CALSView Windows  
Inset Systems HiJaak Pro  
Expert Graphics RxHighlight v1.0

Standards  
Tested:

MIL-STD-1840A  
MIL-R-28002A

### **3. 1840A Analysis**

#### **3.1 External Packaging**

The tapes arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a padded commercial bag. The exterior of the bag was not marked with a magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3.; however, it was marked as containing magnetic media. One of the tapes was damaged due to the lack of physical protection.

The tapes were not enclosed in a barrier bag or barrier sheet material as required by MIL-STD-1840A, para. 5.3.1.2. The tape reels did not contain labels indicating the recording density, as required by MIL-STD-1840A, para. 5.3.1. Some 9-track tape units require this BPI to be set manually. Enclosed in the bag was a packing list showing all files recorded on the tapes.

#### **3.2 Transmission Envelope**

The 9-track tapes received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

##### **3.2.1 Tape Formats**

###### **3.2.1.1 Tape One**

The first tape, marked "No internal label p/Maxima instructions," was run through the AFCTN *Tapetool* v1.2.10 utility. No errors or warnings were reported while evaluating the contents of the tape labels. However, 13 notes were reported.

Four of the notes were "Invalid record size encountered." This is related to the tape label Record Length field for Type D files. Type D files contain variable length records that do not span blocks. All of the Type D files were flagged with an illegal value for Record Length.

File D001 was expected to be Type D according to MIL-STD-1840A. The AFCTN *Tapetool* expects a value of 260 in the Record Length field, but encountered a record length of 256. MIL-STD1840A para. 5.2.1.3 requires the variable record size be a maximum of 256 bytes. ANSI X3.27 para. 7.2.3 further states that the length of a Record Control Word (RCW) must be included in a Measured Data Unit (MDU) record length computation. This adds four bytes to the 256 for an MDU total of 260 bytes.

ANSI X3.27 para. 8.5.2.6 states that the Record Length field for Type D files shall contain the maximum length of an MDU.

While MIL-STD-1840A permits variable length records. Some software programs are sensitive to the number 260 because it is used to limit the record size when unblocking data. Some systems need this value to declare the maximum allowable record size as an attribute of a file when it is created.

Eight of the notes were short block notes. All eight Raster files had a reported incomplete last block. MIL-STD-1840A requires that the last block be padded to the end. By convention, this is done with the space character. Some tape drives will not process incomplete blocks which can result in the loss of data.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1664, Block Number => 11

One note was reported on the tape label version. MIL-STD-1840A permits the use of both version three and four. The use of the most current standard should be used and noted.

All of the errors/warnings/notes are shown in Appendix A, Section 9.1. of this report.

The tape was read using XSoft's *CAPS read1840A* utility without any reported errors. However, it did report the wrong number of files in the Document Declaration file.

The physical structure of the first tape meets the requirements defined in MIL-STD-1840A.

---

### 3.2.1.2 Tape Two

The second tape was run through the AFCTN *Tapetool* v1.2.10 utility. Four errors were reported while evaluating the contents of the tape labels. This tape did not have tape marks or the required ANSI header records. No data was found on this tape.

As a second test, the basic UNIX tape dump command was issued. The resulting data was the same as shown in the *Tapetool* log. All of the errors are shown in Appendix A, Section 9.2. of this report.

The physical structure of the second tape does not meet the requirements defined in MIL-STD-1840A and ANSI X3.27.

### 3.2.2 Declaration and Header Fields

On tape one, nine errors and eight notes were reported in the Document Declaration file and data file headers. In Document Declaration File D001, an invalid change level was flagged. This record contained both the word ORIGINAL and a date, which is not permitted.

chglvl: ORIGINAL, 4808120702

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Invalid change level encountered.  
\*\*\* NOTE (MIL-STD-1840A; 5.1.1.2) - Change level should be the word ORIGINAL or a Revision Number followed by a Change Level Number followed by a Change Level Date. They should be separated by a comma or space.

Most of the Raster file headers had reported errors in the srcdocid record. The EDCARS system uses information in 80 character records, some of which are spaces. The space character is a valid value. These reported errors are not valid for this tape.

srcdocid: D2-13483 81205 00010001UMEAHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.

This portion of the first tape does not meet the requirements defined in MIL-STD-1840A, due to the error in the chglvl record.

---

## 4. IGES Analysis

No Initial Graphics Exchange Specification (IGES) files were included in this evaluation.

## 5. SGML Analysis

No Standard Generalized Markup Language (SGML) files were included in this evaluation.

## 6. Raster Analysis

Tape one contained eight Raster files. All files were evaluated using the AFCTN *validg4* utility. This program reported that all files meet the CALS MIL-R-28002A specification.

The files were read into the AFCTN *xrastb.sun4* viewing utility. No problems were noted.

The AFCTB has several tools for viewing Raster files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

The Raster files were read into Carberry's *CADLeaf* software without a reported error. The images were displayed

The files were read using IDA's *CALSVIEW* and *CALSVIEW for Windows* without a reported error.

The files were read into IDA's *IGESVIEW* and *IGESVIEW for Windows* without a reported error.

The files were read into Inset Systems' *HiJaak for Windows* without a reported error.

The files were read using InterCAP's *X-Change* without a reported error.

The Raster files were imported into Expert Graphics' *Rx-Highlight* and displayed without a reported error.

The Raster files from the first tape meet the CALS MIL-R-28002A specification.

## **7. CGM Analysis**

No Computer Graphics Metafile (CGM) files were included in this evaluation.

## **8. Conclusions and Recommendations**

### **8.1 Tape One**

The physical structure of the first tape was correct. The Document Declaration file contained an error in the chglvl record. This portion of the tape does not meet the CALS MIL-STD-1840A requirements. However, it does meet the requirements defined in ANSI x3.27.

The Raster files from the first tape meet the CALS MIL-R-28002A specification.

The first tape submitted by OO-ALC/TIMEDEE does not meet the CALS MIL-STD-1840A requirements, due to the errors in the chglvl record in the Document Declaration file.

### **8.2 Tape Two**

The physical structure of the second tape was incorrect, and it contained no data. The tape does not meet the CALS MIL-STD-1840A nor the ANSI X3.27 requirements.



## 9. Appendix A - Tapetool Report Logs

### 9.1 Tape One

#### 9.1.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Aug 12 09:11:10 1994

MIL-STD-1840A File Catalog

File Set Directory: /cals/u1210/Set046

Page: 1

File Name	File Type	Record Format/ Length	Block Length/Total	Selected/ Extracted
D001	Document Declaration	D/00256	02048/000001	Extracted
*** NOTE (MIL-STD-1840A; 5.2.1.3) - Unexpected maximum variable record size encountered. Header => 256, Expected => 260				
*** NOTE (ANSI X3.27; 8.5.2.6) - Record Length for Recording Format Type D shall be the maximum length of a Measured Data Unit (MDU).				
*** NOTE (ANSI X3.27; 7.2.3) - A variable length record shall be contained in an MDU. An MDU consists of a four byte Record Control Word (RCW) followed immediately by the variable record.				
*** NOTE (ANSI X3.4) - A Record Control Word shall consist of four characters that express the sum of the lengths of the RCW and the variable record.				
D001R001	Raster	F/00128	02048/000011	Extracted
D001R002	Raster	F/00128	02048/000008	Extracted
D001R003	Raster	F/00128	02048/000060	Extracted
D001R004	Raster	F/00128	02048/000049	Extracted
D001R005	Raster	F/00128	02048/000053	Extracted
D001R006	Raster	F/00128	02048/000017	Extracted
D001R007	Raster	F/00128	02048/000073	Extracted
D001R008	Raster	F/00128	02048/000103	Extracted

Catalog Process terminated with 0 error(s), 0 warning(s), and 4 note(s).

---

## 9.1.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Aug 12 09:10:52 1994

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL10OALC2

EDCAL5

3

Label Identifier: VOL1

Volume Identifier: OOALC2

Volume Accessibility:

Owner Identifier: EDCAL5

Label Standard Version: 3

\*\*\* NOTE (ANSI X3.27; 8.3.1.8) - The Label Standard Version  
should be 4 to represent the current level of ANSI X3.27.

<<<< PART OF LOG FILE REMOVED HERE >>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

HDR1D001R001

OOALC200010002000100 94214 00000 000000IBMZLA

Label Identifier: HDR1

File Identifier: D001R001

File Set Identifier: OOALC2

File Section Number: 0001

File Sequence Number: 0002

Generation Number: 0001

Generation Version Number: 00

Creation Date: 94214

Expiration Date: 00000

File Accessibility:

Block Count: 000000

Implementation Identifier: IBMZLA

---

HDR2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: HDR2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1664, Block Number => 11

Number of data blocks read = 11.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R001              OOALC200010002000100 94214 00000 000011IBMZLA

Label Identifier: EOF1  
File Identifier: D001R001  
File Set Identifier: OOALC2  
File Section Number: 0001  
File Sequence Number: 0002  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 94214  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000011  
Implementation Identifier: IBMZLA

EOF2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: EOF2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

<<<< PART OF LOG FILE REMOVED HERE >>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

---

---

Actual Block Size Found = 2048 Bytes.  
\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1408, Block Number => 8

Number of data blocks read = 8.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R002            OOALC200010003000100 94214 00000 000008IBMZLA

                         <<<<< PART OF LOG FILE REMOVED HERE >>>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.  
\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1792, Block Number => 60

Number of data blocks read = 60.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R003            OOALC200010004000100 94214 00000 000060IBMZLA

                         <<<<< PART OF LOG FILE REMOVED HERE >>>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.  
\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 384, Block Number => 49

Number of data blocks read = 49.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R004            OOALC200010005000100 94214 00000 000049IBMZLA

                         <<<<< PART OF LOG FILE REMOVED HERE >>>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

---

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1536, Block Number => 53

Number of data blocks read = 53.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R005            OOALC200010006000100 94214 00000 000053IBMZLA

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 384, Block Number => 17

Number of data blocks read = 17.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R006            OOALC200010007000100 94214 00000 000017IBMZLA

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 512, Block Number => 73

Number of data blocks read = 73.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R007            OOALC200010008000100 94214 00000 000073IBMZLA

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

\*\*\*\*\* Tape Mark \*\*\*\*\*

---

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1664, Block Number => 103

Number of data blocks read = 103.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R008            OOALC200010009000100 94214 00000 000103IBMZLA

Label Identifier: EOF1  
File Identifier: D001R008  
File Set Identifier: OOALC2  
File Section Number: 0001  
File Sequence Number: 0009  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 94214  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000103  
Implementation Identifier: IBMZLA

EOF2F020480012840CALSOPT1/CONVERT            B            00

Label Identifier: EOF2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

\*\*\*\*\* Tape Mark \*\*\*\*\*

##### End of Volume OOALC2 #####

##### End Of Tape File Set #####

Deallocating /dev/rmt0...

Tape Import Process terminated with 0 error(s), 0 warning(s),  
and 9 note(s).

### 9.1.3 Tape File Set Validation Log

CALS Test Network File Set Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

Fri Aug 12 09:11:10 1994

MIL-STD-1840A File Set Evaluation Log

File Set: Set046

Found file: D001

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: West Coast Information Systems, Inc

srcdocid: To Be Assigned

srcrelid: NONE

chglvl: ORIGINAL, 4808120702

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Invalid change level encountered.

\*\*\* NOTE (MIL-STD-1840A; 5.1.1.2) - Change level should be the word ORIGINAL  
or a Revision Number followed by a Change Level Number followed by  
a Change Level Date. They should be separated by a comma or space.

dteis: 19940702

dstsys: UNKNOWN

dstdocid: To Be Assigned

dstrelid: NONE

dtetn: 19940702

dlvacc: NONE

filcnt: R999

ttlcls: Unclassified

doccls: Unclassified

doctyp: Unclassified

doctl: EDCARS conversion to CALS group 4

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Document Declaration File D001.

Found file: D001R001

Extracting Raster Header Records...

Evaluating Raster Header Records...

srcdocid: D2-13483 81205 00010001UMEAHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 001696,002348  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R001.  
Saving Raster Header File: D001R001\_HDR  
Saving Raster Data File: D001R001\_GR4

Found file: D001R002  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: D2-18054-1 81205 00010001UMEAHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 001696,002238  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R002.  
Saving Raster Header File: D001R002\_HDR  
Saving Raster Data File: D001R002\_GR4

Found file: D001R003  
Extracting Raster Header Records...  
Evaluating Raster Header Records...



srcdocid: ENTERPRISE 99999 00010001UMEDHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 004496,006800  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R003.  
Saving Raster Header File: D001R003\_HDR  
Saving Raster Data File: D001R003\_GR4

Found file: D001R004  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: D7H16DW662-01 81755 00010001UMECHN  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 003440,004400  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

Saving Raster Header File: D001R004\_HDR  
Saving Raster Data File: D001R004\_GR4

Found file: D001R005  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: SHUTTLE 99999 00010001U EHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 006880,008800  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R005.  
Saving Raster Header File: D001R005\_HDR  
Saving Raster Data File: D001R005\_GR4

Found file: D001R006  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: 14-40602 76823 NTE68492A 00010001USBBHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 003632,004600  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R006.  
Saving Raster Header File: D001R006\_HDR  
Saving Raster Data File: D001R006\_GR4

Found file: D001R007  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

---

srcdocid: 16F4560 81755BB 00010002UMEEHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 007200,009300  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image  
1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R007.  
Saving Raster Header File: D001R007\_HDR  
Saving Raster Data File: D001R007\_GR4

Found file: D001R008  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: 16H1910 81755 N 00010001UMEDHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 007040,008700  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image  
  
1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R008.  
Saving Raster Header File: D001R008\_HDR  
Saving Raster Data File: D001R008\_GR4

Evaluating numbering scheme...  
No errors were encountered during numbering scheme evaluation.  
Numbering scheme evaluation complete.

Checking file count...

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Actual Raster File Count does  
not match filcnt record. Actual => 8, Expected => 999.

\*\*\* NOTE - Correction made in new Document Declaration header file.

1 error(s) were encountered during file count verification.

File Count verification complete.

A total of 9 error(s), 0 warning(s), and 8 note(s) were  
encountered in Document D001.

A grand total of 9 error(s), 0 warning(s), and 8 note(s) were  
encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

---

## 9.1.4 Other Tape Reading Logs

```
/cals/caps/Bin/read1840A: --- Read declaration file 'D001      ' ---  
/cals/caps/Bin/read1840A: writing data file 'qstr94109/ToBeAssigned/  
ToBeAssigned1.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'qstr94109/ToBeAssigned/  
ToBeAssigned2.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'qstr94109/ToBeAssigned/  
ToBeAssigned3.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'qstr94109/ToBeAssigned/  
ToBeAssigned4.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'qstr94109/ToBeAssigned/  
ToBeAssigned5.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'qstr94109/ToBeAssigned/  
ToBeAssigned6.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'qstr94109/ToBeAssigned/  
ToBeAssigned7.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'qstr94109/ToBeAssigned/  
ToBeAssigned8.R.cci'.  
-- declaration file indicates 0 files of type T  
-- declaration file indicates 0 files of type G  
-- declaration file indicates 0 files of type H  
-- declaration file indicates 0 files of type Q  
-- declaration file indicates 999 files of type R  
-- declaration file indicates 0 files of type C  
-- declaration file indicates 0 files of type X  
-- declaration file indicates 0 files of type P  
-- declaration file indicates 0 files of type Z  
*** WARNING: Declaration file indicates 999 Raster files, but tape contains  
8 files.
```

